



# United States Department of Agriculture.

## BUREAU OF ANIMAL INDUSTRY.

JOHN R. MOHLER, CHIEF OF BUREAU.

## SERVICE AND REGULATORY ANNOUNCEMENTS.

DECEMBER, 1921.

[This publication is issued monthly for the dissemination of information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry. Free distribution is limited to persons in the service of the bureau, establishments at which the Federal meat inspection is conducted, public officers whose duties make it desirable for them to have such information, and journals especially concerned. Others desiring copies may obtain them from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 5 cents each, or 50 cents a year. A supply will be sent to each official in charge of a station or branch of the bureau service, who should promptly distribute copies to members of his force. A file should be kept at each station for reference.]

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### CHANGES IN DIRECTORY.

#### Meat Inspection Inaugurated.

- 425 E. A. Stevenson & Co. (Inc.), Division Street, Boonton, N. J.; mail, 44 Whitehall Street, New York, N. Y.
- 278 National Packing House Market Sausage Factory, Fifth Street and Kaw River, Kansas City, Kans.; mail, 558 Walnut Street, Kansas City, Mo.
- 426 Pure Food Specialty Co., 27 Front Street, Lawrence, Mass.; mail, P. O. box 373.
- \*894 Wilmington Provision Co., Foot of Orange Street, Wilmington, Del.
- \*527 Jones-Chambliss Co., 1055 Forest Street, Jacksonville, Fla.
- \*877 Chipley Packing Co., Chipley, Fla.
- 431 John Minder & Son (Inc.), 224-226 Greenwich Street, New York, N. Y.
- \*282 Agar Packing Co. (Inc.), 4057 Union Avenue, Chicago, Ill.

\* Conducts slaughtering.

**Meat Inspection Withdrawn.**

252 Franco-American Food Co., Franklin Street and Central Avenue, Jersey City, N. J.

**Change in Name and Address of Official Establishment.**

324 M. D. Singer & Co. (Inc.), 3451 Giles Avenue, Chicago, Ill., instead of M. D. Singer & Co., 3451 Forest Street, Chicago, Ill.

**Stations Added.**

Boonton, N. J., meat inspection (substation of Paterson, N. J.).

Lawrence, Mass., meat inspection (substation of Haverhill, Mass.).

Chipley, Fla., meat inspection, Dr. W. F. Osborn, care Chipley Packing Co.

**Changes of Officials in Charge.**

Fort Dodge, Iowa: Dr. D. G. Tepfer, 32 Post Office Building, instead of Dr. R. B. Gochenour.

Olympia, Wash.: Dr. J. C. Exline, tuberculosis eradication and field work, 204 Federal Building, P. O. box 304, instead of Dr. S. O. Fladness, tuberculosis eradication, Funk-Volland Building.

Logansport, Ind.: Dr. W. H. Borchers instead of Dr. John Keppel.

Ogden, Utah: Dr. Edward Lapple instead of Dr. D. G. Tepfer.

Walla Walla, Wash.: Dr. Carl A. Johnston, meat inspection, instead of Dr. J. C. Exline.

**Changes in Addresses of Officials in Charge.**

Dr. H. M. Newton, State Office Building, Lansing, Mich., instead of Old State Block.

Dr. T. S. Rich, State Office Building, Lansing, Mich., instead of Old State Block.

Dr. W. M. MacKellar, 212 Federal Building, P. O. box 338, Sacramento, Calif., instead of 310 Federal Building, P. O. box 338.

**Notes.**

Meat inspection extended at Establishment 668, The Blanton Co., 115 Spruce Street, St. Louis, Mo., to include The Blanton-Sims Co.; and at Establishment 251, Vette & Zuncker Packing Co., Chicago, Ill., to include Vette & Zuncker and Vette & Zuncker Canning Department.

Change in lines of work: Dr. J. A. Barger, Jackson, Miss., will hereafter be in charge of tick eradication and transportation of southern cattle; and Dr. H. L. Fry, P. O. box 725, Jackson, Miss., will be in charge of hog-cholera control and tuberculosis eradication.

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**NOTICE REGARDING MEAT INSPECTION.****Artificially Colored Meat Food Products Prohibited Entry into Canada.**

The Canadian meat-inspection regulations prohibit the entry into Canada of meat and meat food products in or upon which coloring matter is used. Another Canadian law controlling the manufacture and sale of oleomargarin also prohibits the addition of coloring matter to oleomargarin. Therefore inspectors will not issue export certificates for artificially colored meat food products destined to Canada.

### ANIMALS SLAUGHTERED UNDER FEDERAL MEAT INSPECTION, NOVEMBER, 1921.

Station.	Cattle.	Calves.	Sheep.	Goats.	Swine.
Chicago.....	155,520	43,227	244,825	2,092	568,761
Fort Worth.....	26,320	26,789	7,197	.....	16,858
Kansas City.....	86,866	21,892	58,610	378	206,172
National Stock Yards.....	27,050	5,580	19,259	26	119,967
Omaha.....	52,159	3,996	94,339	5	112,006
St. Louis.....	14,369	3,153	4,815	.....	147,459
Sioux City.....	17,645	1,121	30,470	.....	59,327
South St. Joseph.....	23,729	4,571	46,459	3	139,667
South St. Paul.....	39,100	29,860	72,100	.....	189,843
All other establishments.....	243,357	151,983	462,316	894	1,886,967
Total: November, 1921.....	686,115	292,172	1,040,390	3,398	3,447,027
November, 1920.....	858,946	315,971	968,235	4,407	3,328,633
11 months ended November, 1921.....	7,022,088	3,548,523	12,114,924	10,871	35,175,558
11 months ended November, 1920.....	7,941,347	3,813,797	10,049,763	41,257	34,033,559

Horses slaughtered at all establishments, November, 1921, 306.

Inspections (including reinspections) of lard prepared at all establishments, 132,154,997 pounds; compound and other substitutes, 23,340,888 pounds. Corresponding inspections for November, 1920: Lard, 106,354,572 pounds; compound and other substitutes, 24,602,026 pounds.

### IMPORTS OF FOOD ANIMALS AND OF MEATS AND MEAT FOOD PRODUCTS.

The statements following show the imports of food animals and of meats and meat food products inspected by the Bureau of Animal Industry during November, 1921, with figures for other periods for comparison.

#### *Imports of food animals.*

Country of export.	Cattle.	Swine.	Sheep.	Goats.
Mexico.....	4,264	1	.....	11
Canada.....	34,951	475	10,570	.....
Great Britain.....	49	.....	20	.....
Total: November, 1921.....	39,264	476	10,590	11
November, 1920.....	80,833	97	31,969	110
11 months ended November, 1921.....	197,818	2,870	82,456	517
11 months ended November, 1920.....	350,839	979	149,783	12,456

#### *Imports of meat and meat food products.*




Country of export.	Fresh and refrigerated.		Canned and cured.	Other products.	Total weight.
	Beef.	Other.			
	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>	<i>Pounds.</i>
Argentina.....	.....	.....	36,803	.....	36,803
Australia.....	.....	.....	34	.....	34
Canada.....	3,297,188	1,889,231	12,164	80,756	5,279,339
Uruguay.....	.....	.....	52,012	.....	52,012
Other countries.....	.....	770	16,318	61,152	78,240
Total: November, 1921.....	3,297,188	1,890,001	117,331	141,908	5,446,428
November, 1920.....	4,873,784	9,920,135	608,247	130,181	15,532,347
11 months ended November, 1921.....	24,097,411	38,536,523	2,512,754	1,284,720	66,431,408
11 months ended November, 1920.....	35,723,193	98,539,422	6,811,174	6,825,241	147,899,030

Condemned in November, 1921: Pork, 1,165 pounds.

Refused entry: Veal, 890 pounds.

# FOREIGN OFFICIALS AUTHORIZED TO SIGN INSPECTION CERTIFICATES FOR MEAT AND PRODUCTS FOR IMPORTATION INTO THE UNITED STATES.

The following are additional names and facsimile signatures of foreign national Government officials authorized to sign and issue certificates of inspection for meat and meat food products offered for importation into the United States:

Country and name.	Signature.
CANADA.	
A. M. McFarlane.....	
SWITZERLAND.	
M. Bürgi.....	
W. Zschokke.....	

## LICENSES FOR VETERINARY BIOLOGICAL PRODUCTS.

The following additions have been made to the list of licenses for the manufacture of veterinary biological products for the year 1921 under the act of Congress of March 4, 1913 (37 Stat., 832), and the regulations made thereunder (B. A. I. Order 265):

License No.	Date.	Name and address of firm.	Products.
6	1921 Dec. 22	Pitman-Moore Co., near Zionsville, Ind. (Mailing address, 117 North Capitol Avenue, Indianapolis, Ind.)	Abortion vaccine (bovine).
107	Dec. 2	Jensen-Salsbery Laboratories (Inc.), 520 West Pennway, Kansas City, Mo.	Anti-influenza serum (equine).
145	Dec. 29	West Plains Serum Co., Springfield Road, West Plains, Mo.	Antihog-cholera serum; hog-cholera virus.
169	Dec. 30	Cotton States Serum Co., Franklin and Jefferson Streets, Grenada, Miss. (Mailing address: Grenada, Miss.)	Antihog-cholera serum; hog-cholera virus.

U. S. Veterinary License No. 145, dated March 26, 1921, issued to the J. S. Anti-Hog Cholera Serum Laboratory, West Plains, Mo., was terminated December 29, 1921, and reissued to the West Plains Serum Co. of the same place.

U. S. Veterinary License No. 157, dated January 1, 1921, issued to the Dixie Serum Co., Grenada, Miss., was terminated December 30, 1921.

U. S. Veterinary Permit No. 2, dated December 27, 1921, was issued to the Pasteur Laboratories of America, 366-368 West Eleventh Street, New York City, for the following products:

Antianthrax serum; antistreptococci serum; antitetanic serum; fowl-cholera serum; mallein; tuberculin, manufactured by Labpasteur, Veterinary Department, Institut Pasteur, Paris, France. Anthrax vaccine, manufactured by Laboratoire des Vaccins Pasteur pour l'Etranger, Paris, France. Antiblackleg serum; blackleg vaccine; polyvalent serum; polyvalent vaccine, manufactured by Institut de Sérothérapie de Toulouse, Toulouse and Paris, France. Blackleg vaccine, manufactured by Prof. O. Thomas Laboratories, Verdun and Dijon, France.

## QUANTITIES OF ANTIHOG-CHOLERA SERUM AND HOG-CHOLERA VIRUS PRODUCED DURING NOVEMBER, 1921.

Month.	Serum.			Simultaneous virus.	Hyperimmunizing virus.
	Ordinary.	Clear.	Total.		
November.....	c. c. 58,082,045	c. c. 6,044,416	c. c. 64,126,461	c. c. 2,095,439	c. c. 16,372,902

# SUMMARY OF TUBERCULOSIS-ERADICATION WORK IN COOPERATION WITH THE VARIOUS STATES, NOVEMBER, 1921.

Station.	State.	Tuberculin tests.			Total once- tested free herds.	Total ac- cred- ited herds.	Total herds under super- vision.	Inspector in charge.	State official.
		Herds or lots.	Cattle tested.	Re- acted.					
Albany.....	N. Y..	79	1,719	165	2,594	235	4,596	H. B. Leonard..	D. W. McLaury, Albany.
Albuquerque..	N.Mex.	14	269	3	84	.....	88	F. L. Schneider.	Mat Keenan, Albu- querque.
Atlanta.....	Ga....	39	581	6	1,285	9	1,462	A. L. Hirlleman.	P. F. Bahnsen, At- lanta.
Augusta.....	Me....	449	3,058	71	3,812	601	5,122	J. B. Reidy.....	H. M. Tucker, Augusta.
Baltimore....	Md....	173	2,131	163	1,086	299	1,793	T. A. Ladison...	R. C. Reed, Balti- more.
Birmingham.	Ala....	84	2,555	15	582	54	713	C. J. Becker.....	C. A. Cary, Aub- urn.
Bismarck....	N.Dak.	367	7,203	259	2,801	319	3,883	H. H. Cohenour.	W. F. Crewe, Bism- arck.
Boise.....	Idaho.	302	4,167	41	3,015	100	3,458	W. A. Sullivan..	J. D. Adams, Boise.
Boston.....	Mass.	34	1,672	62	55	41	174	E. A. Crossman.	L. H. Howard, Boston.
Do.....	R. I..	4	72	2	10	8	29	.....do.....	T. E. Robinson, Providence.
Do.....	N. H..	42	1,021	31	133	26	267	.....do.....	A. L. Folker, Con- cord.
Charleston...	W.Va.	140	1,642	31	1,110	131	1,361	George W. Neff..	J. H. Stewart, Charleston.
Cheyenne....	Wyo..	373	1,631	15	1,297	.....	1,510	John T. Dallas..	B. F. Davis, Chey- enne.
Chicago.....	Ill....	155	2,528	58	668	298	1,733	J. J. Lintner....	F. A. Laird, Springfield.
Columbia....	S. C..	81	1,579	18	492	65	611	W. K. Lewis....	W. K. Lewis, Colu- mbia.
Columbus....	Ohio..	329	4,670	258	1,443	520	2,589	Leo. E. Davis...	B. H. Edgington, Columbus.
Denver.....	Colo..	5	325	9	1	1	12	W. E. Howe....	Charles G. Lamb, Denver.
Des Moines..	Iowa..	205	5,031	131	3,208	323	4,753	F. H. Thompson.	P. Malcolm, Des Moines.
Fort Worth..	Texas.	5	1,570	46	89	17	201	H. Grafke.....	L. C. Cloud, Fort Worth.
Frankfort....	Ky....	297	3,113	37	2,192	140	2,887	W. F. Biles.....	W. H. Simmons, Frankfort.
Harrisburg..	Pa....	308	5,813	317	1,108	777	2,585	P. E. Quinn.....	T. E. Munce, Har- risburg.
Hartford....	Conn..	79	1,761	588	209	49	460	R. L. Smith.....	J. M. Whittlesey, Hartford.
Helena.....	Mont.	475	8,659	94	5,871	114	11,827	R. Snyder.....	W. J. Butler, Hel- ena.
Indianapolis.	Ind....	532	6,118	267	6,340	531	7,267	E. B. Haskin...	R. C. Julien, In- dianapolis.
Jackson.....	Miss..	90	857	8	320	114	592	J. A. Barger.....	H. Chadwick, Jack- son.
Jefferson City.	Mo....	2,073	19,775	181	7,499	328	8,112	Ralph Graham..	D. F. Lucky, Jef- ferson City.
Lansing.....	Mich..	1,941	15,503	566	7,933	229	9,923	T. S. Rich.....	H. H. Halladay, Lansing.
Lincoln.....	Nebr..	887	14,939	303	2,807	146	3,455	C. H. Hays.....	F. R. Woodring, Lincoln.
Little Rock..	Ark....	4	243	.....	42	27	71	W. E. Dodd.....	J. H. Bux, Little Rock.
Madison.....	Wis....	503	13,441	318	1,485	1,394	3,505	J. S. Healy.....	C. P. Norgord, Madison.
Montpelier..	Vt....	207	4,872	234	2,444	786	3,874	A. J. De Fosset.	E. S. Brigham, Montpelier.
Nashville....	Tenn..	84	2,371	69	514	180	769	E. I. Smith.....	G. R. White, Nashville.
New Orleans.	La....	34	960	49	291	48	351	R. W. Tuck.....	E. P. Flower, Bat- on Rouge.
Oklahoma....	Okla..	262	3,274	33	467	72	1,108	C. F. Harrington.	J. A. Whitehurst, Oklahoma.
Olympia.....	Wash.	590	5,193	96	3,384	76	3,648	S. O. Fladness..	L. C. Pelton, Olym- pia.
Pierre.....	S. Dak.	38	811	18	343	120	563	J. O. Wilson....	A. E. Beaumont, Pierre.
Portland.....	Oreg..	473	3,735	40	5,163	109	5,821	S. B. Foster.....	W. H. Lytle, Salem.
Raleigh.....	N. C..	1,062	4,371	65	5,305	261	5,617	Paul Vaughn....	Wm. Moore, Ra- leigh.

**SUMMARY OF TUBERCULOSIS-ERADICATION WORK IN COOPERATION  
WITH THE VARIOUS STATES, NOVEMBER, 1921—Continued.**

Station.	State.	Tuberculin tests.			Total once- tested free herds.	Total ac- cred- ited herds.	Total herds under super- vision.	Inspector in charge.	State official.
		Herds or lots.	Cattle tested.	Re- acted.					
Richmond....	Va....	170	4,246	171	1,244	588	2,235	R. E. Brook- bank.	J. G. Ferneyhough, Richmond.
St. Paul.....	Minn..	454	8,459	140	2,141	1,271	4,213	W. J. Fretz.....	C. E. Cotton, St. Paul.
Salt Lake City	Utah..	549	2,414	37	4,914	60	5,469	F. E. Murray...	W. A. Stephensen, Salt Lake City.
Do.....	Nev...	76	581	13	1,352	5	1,707	.....do.....	Edward Records, Reno.
Tallahassee...	Fla....	73	1,677	16	2,386	68	3,253	J. G. Fish.....	J. W. DeMilly, Tallahassee.
Topeka.....	Kans..	138	3,625	93	295	273	742	H. M. Graefe....	J. H. Mercer, To- peka.
Trenton.....	N. J....	56	1,863	72	100	57	281	W. C. Middleton.	J. H. McNeil, Trenton.
Do.....	Del...	214	1,730	75	1,015	59	1,638	.....do.....	O. A. Newton, Bridgeville.
Washington..	D. C..	1	18	.....	141	194	340	J. A. Kiernan...	.....do.....
Do (misc.)	D. C..	6	7	.....	.....	.....	.....	.....do.....	.....do.....
Total.....	.....	14,556	183,853	5,284	91,070	11,123	126,668	.....	.....

**TEXAS-FEVER QUARANTINE—PLACES TO WHICH SOUTHERN CATTLE  
MAY BE SHIPPED FOR IMMEDIATE SLAUGHTER.**

The following changes have been made in the list of places to which southern cattle may be shipped for immediate slaughter under State and Federal permission. (See circular letter of June 14, 1918.):

*Permission withdrawn.*

NEW JERSEY: *Jersey City*.—(*Harsimus*)—Armour & Co.

NEW YORK: *Buffalo*.—C. Klinck Packing Co.

OHIO: *Cleveland*.—John Deobald; Retail Butchers' Protective Association; Webb Bros.; and Eisenman Bros.

PENNSYLVANIA: *Pittsburgh*.—Rea & Co.

*Erie*.—Killmaier & Co. and Schaffner Bros.

**PERMITTED DIP FOR CATTLE FOR TICKS.**

The bureau has granted permission for the use of "Probovis," manufactured by Lehn & Fink, Bloomfield, N. J., in the official dipping of cattle for ticks. The dilution for dipping cattle for interstate movement is one gallon of dip to not more than 127 gallons of water. This will yield a solution containing not less than 0.22 per cent actual arsenious oxid.

**BUREAU EMPLOYEES MUST NOT PAY STATE SALES TAX ON OFFICIAL  
PURCHASES OF GASOLINE.**

Attention of field employees is invited to the fact that no State has a right to tax the operations of the Federal Government. The bureau therefore can not lawfully pay any sales tax imposed by a State on gasoline which employees may purchase for official use in Government-owned automobiles, trucks, or motorcycles, or for any other official use. In order to avoid the necessity for returning to bureau employees for explanation

reimbursement accounts and public vouchers (form<sup>5</sup>) covering purchases of gasoline, employees are directed to indicate, in all accounts submitted to the bureau, in connection with each and every charge for gasoline whether or not a sales tax is included.

Several States issue certificates for use by Federal and State employees exempting them from the payment of the sales tax on gasoline. These certificates should be obtained from State officials wherever possible.

Employees using their own automobiles, trucks, or motorcycles for official purposes, under authority to receive reimbursement therefor at a stipulated rate per mile, can not be exempted from the payment of the sales tax; but when they use their personally owned automobiles, trucks, or motorcycles for official purposes, for which they are to receive only reimbursement for the actual cost of gasoline and oil they will use, exemption from payment of sales tax may be claimed.

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### ADVERTISING FOR HELP.

The United States Civil Service Commission has called attention to the fact that some Government offices advertise in periodicals or newspapers for assistance in filling positions in the classified civil service. It is pointed out that while such practice may be of benefit in individual cases, it ultimately proves a hindrance to the commission's work of recruiting the civil service as a whole. Inspectors and others in charge will refrain from advertising for such help. They should report to the district secretary of the United States Civil Service Commission any difficulty in procuring help, so that necessary examinations may be arranged to obtain eligibles.

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### IMPROPER USE OF GOVERNMENT AUTOMOBILES.

The chief coordinator, General Supply, has called attention to the fact that Government automobiles are frequently observed being used for other than official business. The Secretary of Agriculture directs that the use of Government automobiles for private purposes must be discontinued immediately. Inspectors in charge have been furnished with cloth cards to be conspicuously posted in Government automobiles, stating that their use for other than official business is prohibited by law under penalty of dismissal. Any Government automobiles not bearing such cards should be so equipped. Additional copies can be had on stores requisition.

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### APPOINTMENTS IN OFFICERS' RESERVE CORPS.

Memorandum No. 360 of the Office of the Secretary, dated December 17, 1921, reads as follows:

In view of the fact that under existing regulations of the War Department "an officer or employee of the United States or the District of Columbia shall not be appointed in or permitted to hold a commission in the Officers' Reserve Corps without the consent of the head of the executive department in which employed," it is requested that all applications by officers or employees in the Department of Agriculture for such appointment be sent to the Secretary, through the chief of the bureau involved, for consideration and transmission to the War Department.

Observance of this procedure, which is in accord with the wishes of the War Department, will obviate the necessity for special correspondence before final action by that department.

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### INJURIES TO EMPLOYEES.

The attention of all employees is called to the following brief summary of the provisions of the act of Congress of September 7, 1916. This law provides for the

payment of compensation by the Government to employees who are injured while in the performance of their duties. All sick and annual leave must first be exhausted, and compensation begins on the fourth day thereafter. The maximum compensation allowed is \$66.67 a month. Any employee injured, whether or not disability results, is entitled, under the law, to receive medical, surgical, and hospital services and supplies, which must be furnished by United States medical officers and hospitals or by private physicians and hospitals approved by the United States Employees' Compensation Commission. A list of such hospitals and physicians is on file in each bureau office. To take advantage of the provisions of this law an injured employee, or some one on his behalf, is required to report the injury on forms provided for the purpose to his immediate superior within 48 hours after the injury. Any claim for compensation for disability must be made within 60 days.

Claims for compensation on account of death resulting from the injury must be made within one year after the death. All injuries, however slight and whether or not disability results, should be reported to the employee's official superior, as slight injuries sometimes result later in serious disability.

Copies of the law and the regulations thereunder, as well as all necessary forms to be prepared, are on file in all bureau offices, and may be consulted at any time by employees.

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### RESULTS OF PROSECUTIONS FOR VIOLATIONS OF LAWS.

Penalties have been imposed in prosecutions for violations of regulatory laws, as reported to the bureau, as follows:

#### Live-Stock Quarantine Law.

Galveston, Harrisburg & San Antonio Railway Co., failure to mark waybill "Southern cattle," \$100 fine.

St. Louis, Brownsville & Mexico Railway Co. (3 cases), failure to mark waybill "Southern cattle," \$300 fines.

Gulf, Colorado & Santa Fe Railway Co., failure to mark waybill "Dipped ticky cattle," \$100 fine.

Receiver Missouri, Kansas & Texas Railway Co. of Texas (4 cases), failure to mark waybill "Exposed to hog cholera," \$400 fines.

Pennsylvania Railroad Co., interstate transportation of cattle without tuberculin test, \$100 fine.

#### Twenty-Eight-Hour Law.

Chicago, Rock Island & Pacific Railway Co., \$100 fine.

Atlantic Coast Line Railroad Co. (2 cases), \$200 fines.

#### Meat-Inspection Law.

F. C. Rogers, Philadelphia, Pa., \$25 fine.

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### NEW PUBLICATIONS OF THE BUREAU.

[The bureau keeps no mailing list for sending publications to individual employees, but publications are sent in bulk to officers in charge for distribution to members of their forces. The number of copies sent varies with the subject or nature of the publication and the number and class of employees. Officers in charge will use their judgment and distribute publications to best advantage. So far as possible additional copies will be furnished on request.]

Farmers' Bulletin 612. Breeds of Beef Cattle. Revision. By E. W. Sheets, Animal Husbandry Division. Pp. 32, figs. 20.

Farmers' Bulletin 1203. The Angora Goat. By G. P. Williams, formerly of Animal Husbandry Division. Pp. 27, figs. 12.



Hemotoxins from Parasitic Worms. By Benjamin Schwartz, formerly of Zoological Division. In *Journal of Agricultural Research*, Vol. XXII, No. 8. November 19, 1921. A-62. Pp. 379 to 432, inclusive.

Department Circular 199. Breeding Morgan Horses at the U. S. Morgan Horse Farm. By H. H. Reese, Animal Husbandry Division. Pp. 18, figs. 13.

Report of the Chief of the Bureau of Animal Industry for the fiscal year 1920. Pp. 57.

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*Dairy Division:* C. W. LARSON, chief.

*Division of Hog-Cholera Control:* U. G. HOUCK, chief.

*Division of Virus-Serum Control:* D. I. SKIDMORE, chief.

*Field Inspection Division:* A. W. MILLER, chief.

*Meat Inspection Division:* R. P. STEDDOM, chief.

*Pathological Division:* JOHN S. BUCKLEY, chief.

*Quarantine Division:* RICHARD W. HICKMAN, chief.

*Tick Eradication Division:* R. A. RAMSAY, chief.

*Tuberculosis Eradication Division:* J. A. KIERNAN, chief.

*Zoological Division:* B. H. RANSOM, chief.

*Experiment Station:* E. C. SCHROEDER, superintendent.

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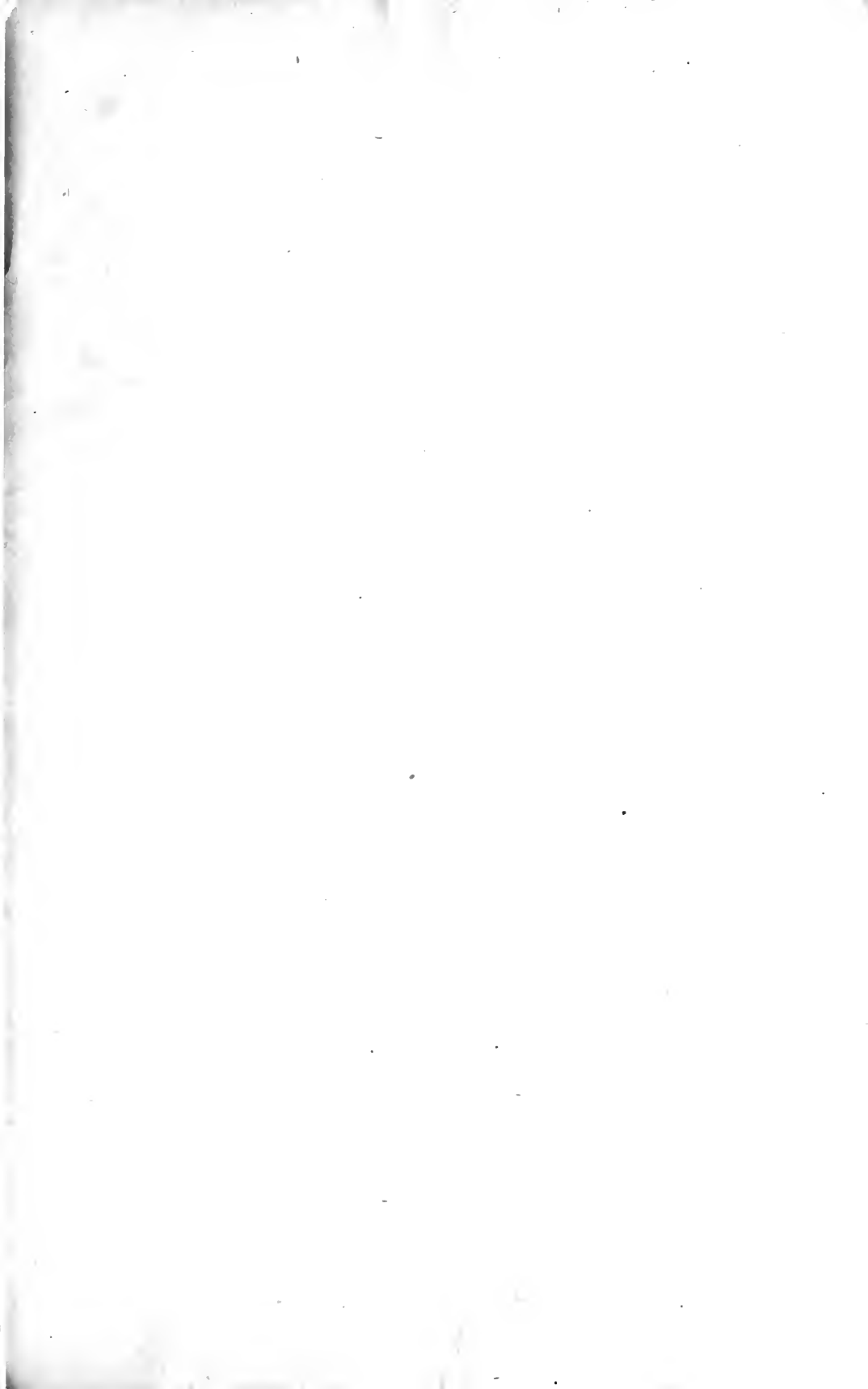
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